

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1) (currently amended) An acoustic waveguide for propagating sound radiation from an acoustic transducer having a throat and a mouth termination, wherein two or more sections lie along the length of said waveguide, wherein the first section is connected to said throat and has a bounding surfaces that are substantially Elliptic Cylinder and whose output is directly connected to the second section, which is substantially Prolate Spheroidal and having an output which is said coordinates from the throat to the mouth termination.
- 2) (Cancelled) The waveguide of claim 1 having a first and second section wherein; the first waveguide section is Elliptic Cylinder and the second is Prolate Spheroidal.
- 3) (Previously Presented) The waveguide of claim 1 wherein; the a mouth termination has a radius.
- 4) (Cancelled) The waveguide of claim 2 wherein; the a mouth termination has a radius.
- 5) (Cancelled) An acoustic waveguide for propagating sound radiation from an acoustic transducer into a sound field wherein the length of said waveguide has a bounding surface that approximates coordinates of the coordinate system Elliptic Cylinder.
- 6) (Cancelled) The waveguide of claim 5 wherein; the mouth termination has a radius to the baffle.